



3D Models

D4

Objective

Provide a method of incorporating 3D drawings into MSFC's engineering/manufacturing/configuration control/quality assurance processes without the expense/time of converting the item to a detailed design drawing.

Why Needed

3D models will provide one data object for design, release, build and inspection. This will reduce costs associated with conversation/redesign of 3D drawings to meet concurrent engineering & development process and associated recurring cost during product life cycle. Current process requires conversion of 3D models to detail design drawings for routing, review and long term storage. Subsequent revisions occasionally require redevelopment of the 3D model from the detail design drawings for subsequent incorporation of engineering revisions. Intricate parts often require additional math models to perform proper acceptance inspection. The existing process introduces potential errors when incorporating engineering order changes to the recreated 3D models.

Point of Contact

Donald Szymczak / ED43
Phone: 256-544-1923
Email: Donald.Szymczak@msfc.nasa.gov

Sponsor

ED 40 Institutional (Submitting to ISE)